

## ABSTRACT

An optical mouse integrated circuit includes an optical sensor, analog-to-digital (A/D) converter, a microprocessor, optional digital signal processor, and memory. The optical sensor generates surface data. The A/D converter receives and generates the digital data. The microprocessor, alone or in conjunction with the digital signal processor, receives the digital data. Memory is used for storage. The microprocessor includes customizable features for navigation operation and power savings.